

CALIFORNIA BEARING RATIO TEST APPARATUS (FIELD TYPE)



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Model: VSLIC-S114

Standard: IS 2720 (PART-XV), IS:12287, BS:1377, ASTM D2435

The use of the in-situ CBR apparatus in large road construction projects has increased considerably in the recent years. This apparatus, mounted on a rolled steel joist cantilevered from the back of the truck or fitted to the underside of a mobile frame, can be used to determine the bearing ratio (generally known as the California Bearing ratio) of soils quickly and efficiently for the evaluation of strengths of sub-grade & bases for roads & runway pavements. This method of testing in-situ, using piston penetration, is useful for determining the load carrying capacity in the field, when the in-place density and water contents are such that the degree of saturation is 80% or greater, when the material is coarse grained and cohesion less so that it is not affected by changes in the water content when the material has been in-place.

VSLIC-S11401 Loading jack with U-Bracket, capacity 50 KN. This is specially designed for use with field CBR test apparatus. It consists of a hand operated, two speed, screw jack fitted with a U- Bracket. A hexagonal adapter is provided to fix the proving ring. A thrust bar, which passes through the U-Bracket, is screwed on to a proving ring (supplied at extra cost) which protects the proving ring when the loading is eccentric.



- VSLIC-S11402** Swivel head for the loading jack.
- VSLIC-S11403** Penetration piston 50mm dia threaded at the upper end, to connect to the various lengths of extension sleeves, through a connector.
- VSLIC-S11404** Extension set consisting of 1 length of 5cm, 2 length of 10cm, 1 length of 30cm, 1 length of 50cm and 1 length of 100cm is used as spacers between the proving ring and penetration piston. The lengths are machined from steel tubing.
- VSLIC-S11405** Connector set consists of eight connectors for coupling the penetration piston and proving ring assembly, either directly or through extension pieces.
- VSLIC-S11406** Datum Bar Assembly.
- VSLIC-S11407** Adjustable Bracket for mounting.
- VSLIC-S11408** Annular Metal weight 5kg, 250mm dia with 53mm dia central hole.
- VSLIC-S11409** Slotted Metal Weight 5kg, 215mm to 250mm dia with 53mm dia slot 2-NOS.
- VSLIC-S11410** Slotted metal weight 10kg, 215mm to 250mm dia with 53mm dia with 53mm dia slot 2-NOS.

